

# INTERNATIONAL SEARCH REPORT

Intern:      Application No  
PCT/GB 03/05184

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7    F16B2/06    F16L3/24    B25B5/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7    F16B    F16L    B25B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 024 511 A (ERNEST SCHLUETER) 13 March 1962 (1962-03-13) column 1, line 55 -column 3, line 41; figures	1-6, 8-11, 13
X	CH 692 711 A (SAUTER AG) 30 September 2002 (2002-09-30) column 3, line 19 -column 4, line 29; figures	1-6, 8, 9, 13, 14
A	US 6 032 939 A (CHEN JENN-TZONG) 7 March 2000 (2000-03-07) figures 1,2	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

10 March 2004

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19/03/2004

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
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			DE	1197283 B	22-07-1965
			GB	907058 A	03-10-1962
CH 692711	A	30-09-2002	CH	692711 A5	30-09-2002
US 6032939	A	07-03-2000	NONE		